

WHAT IS CLAIMED IS:

1. An anode can for an electrochemical cell, the anode can being no more than 0.0050 inch thick, wherein the anode can comprises a copper layer and a stainless steel layer, and wherein the ratio of the copper layer thickness to the stainless steel layer thickness is at least 0.10:1.

2. The can of claim 1, wherein the ratio of the copper layer thickness to the stainless steel layer thickness is at least 0.12:1

3. The can of claim 1, wherein the ratio of the copper layer thickness to the stainless steel layer thickness is at least 0.15:1.

4. The can of claim 1, wherein the ratio of the copper layer thickness to the stainless steel layer thickness is at least 0.17:1.

5. The can of claim 1, wherein the ratio of the copper layer thickness to the stainless steel layer thickness is at least 0.20:1.

6. The can of claim 1, wherein the can is no more than 0.0040 inch thick.

7. The can of claim 1, wherein the can is no more than 0.0025 inch thick.

8. The can of claim 1, wherein the copper layer consists essentially of pure copper.

9. The can of claim 1, wherein the stainless steel layer comprises 304 stainless steel.

10. The can of claim 9, wherein the stainless steel layer consists essentially of 304 stainless steel.

11. The can of claim 1, wherein the can includes a nickel layer.

12. The can of claim 11, wherein the ratio of (a) the combined thickness of the stainless steel layer and the copper layer and (b) the thickness of the nickel layer is about 49:1.

5 13. The can of claim 1, wherein the electrochemical cell is a metal air cell.

14. The can of claim 13, wherein the metal air cell is a zinc air cell.

15. The can of claim 14, wherein the zinc air cell is a button cell.

10

~~16.~~ An anode can for an electrochemical cell, the anode can being no more than 0.0050 inch thick, wherein the anode can comprises a stainless steel layer and a copper layer, and wherein the copper layer is at least 0.010 mm thick.

17. The can of claim 16, wherein the can is no more than 0.0040 inch thick.

18. The can of claim 17, wherein the can is no more than 0.0025 inch thick.

~~19.~~ An anode can for an electrochemical cell, the anode can being no more than 0.0050 inch thick, wherein the anode can comprises two adjacent copper layers and a stainless steel layer, and wherein the ratio of the thickness of the combined copper layers to the thickness of the stainless steel layer is at least 0.10:1.

~~20.~~ A method of making an anode can for an electrochemical cell, the method comprising:

(a) attaching a copper layer to a stainless steel layer to form a multi-layered sheet, wherein the ratio of the copper layer thickness to the stainless steel layer thickness is at least 0.10:1;

(b) punching a disk from the multi-layered sheet; and

(c) drawing the disk into a can, wherein the thickness of the drawn anode can is no more than 0.0050 inch.

21. The method of claim 20, wherein the method further comprises attaching a second copper layer to at least a portion of the drawn anode can to form a finished anode can.

22. The method of claim 21, wherein the thickness of the finished anode can is no more than 0.0050 inch.

23. The method of claim 22, wherein the ratio of the (a) the combined thickness of the first and second copper layers to (b) the thickness of the stainless steel layer is at least 0.10:1.

24. The method of claim 23, wherein the ratio of (a) the combined thickness of the first and second copper layers to (b) the thickness of the stainless steel layer is at least 0.15:1.

25. The method of claim 24, wherein the ratio of (a) the combined thickness of the first and second copper layers to (b) the thickness of the stainless steel layer is at least 0.20:1.

26. A method of making an anode can for an electrochemical cell, the method comprising:

(a) attaching a copper layer to a stainless steel layer to form a multi-layered sheet, wherein the thickness of the copper layer is at least 0.010 mm;

(b) punching a disk from the multi-layered sheet; and

(c) drawing the disk into a can, wherein the thickness of the drawn anode can is no more than 0.0050 inch.

27. The method of claim 26, wherein the thickness of the drawn anode can is no more than 0.0025 inch.

28. The method of claim 26, wherein the method further comprises attaching a second copper layer to at least a portion of the drawn anode can to form a finished anode can.

29. The method of claim 28, wherein the thickness of the finished anode can is no more than 0.0050 inch thick.

30. A method of making an anode can for an electrochemical cell, the method comprising:

(a) attaching a first copper layer to a stainless steel layer to form a multi-layered sheet;

(b) punching a disk from the multi-layered sheet;

(c) drawing the disk into a can; and

(d) attaching a second copper layer to at least a portion of the drawn anode can to form a finished anode can having a thickness of no more than 0.0050 inch, wherein the ratio of (a) the combined thickness of the first and second copper layers to (b) the thickness of the stainless steel layer is at least 0.10:1.

09373748-061101